

**D-19-X**

Roll No.....1239

Total No. of Questions : 11]

[Total No. of Printed Pages : 2

**HSEIRKN15**

**6419-X**

**ZOOLOGY**

**(Biology)**

Time : 1½ Hours]

[Maximum Marks : 35

**(Long Answer Type Questions)**

5 Each

1. Name various methods of "Asexual reproduction". Describe any three of them.

*Or*

Define "Gametogenesis". Describe the microscopic anatomy of "Human Testis".

2. What do you mean by "DNA Fingerprinting" ? Explain in brief "Human Genome Project" and its significance.

*Or*

Explain Hardy-Weinberg's Principle. Add a note on Adaptive radiation.

**(Short Answer Type Questions)**

3 Each

3. Write a short note on "MTP".
4. Name Mendelian disorders in humans. Explain colourblindness in human beings.
5. What is Filariasis ? How is it caused ?
6. Write a short note on Gene therapy.

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Turn Over

(Very Short Answer Type Questions)

2 Each

7. What do you mean by "Amniocentesis" ?
8. What are the problems of Hemophilia ?
9. What is the basic concept of "Immunology" ?
10. What do you mean by "Biosafety issues" ?

(Objective Type Questions)

1 Each

Do as directed :

11. (i) Expand the term "IVF".
- (ii) The cranial capacity of *Homo sapiens* is 1700 cc.  
(Say Yes/No)
- (iii) ~~The pairs of chromosomes that are associated with sex-~~  
~~determination are known as~~ ..... (Fill up)
- (iv) The process of vaccination was discovered by :  
(a) Edward Jenner (b) Robert Koch  
(c) Louis Pasteur (d) Von-Behring  
(Choose the correct one)
- (v) Give one word for :  
"Sufferers with damage to their joints."

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